

APPLICATION FOR A PERMIT TO UTILIZE AND STORE WASTEWATER SLUDGE IN DELAWARE

According to Part III, B. of the Departments Guidance and Regulations Governing the Land Treatment of wastes (http://regulations.delaware.gov/AdminCode/title7/7000/7100/7103.pdf), a permit application shall consists of the initial application form specified by the Department combined with a Project Development Report (PDR) containing any supplementary information and analysis necessary to enable the Department to review the proposed project to determine if it is consistent with Delaware law and regulation. An application shall demonstrate how the applicant plans to comply with the applicable requirements of Department regulations, as well as any additional operating requirements set forth in these regulations that are specifically applicable to the particular type of operation that is proposed.

PRELIMINARY INFORMATION

1.	ame of facility:
	ailing address:
	ocation (street address, if different from mailing address):
2.	ame of contact:
	failing address:
	lephone number:
3.	escription of Sewage Sludge Use or Disposal Practices. Provide the following information on the quantity tall dry metric tons per year) of sewage sludge handled or proposed to be handled at the applicant's facility: mount of sewage sludge:
	generated at the facility:
	received from off-site:
	land applied:
	sent off-site for land application: sent off-site for further treatment or distribution
	sent off-site for further deadment of distribution
	for ultimate land application:
	for ultimate land application: used or disposed of by a method not described above,
	for ultimate land application: used or disposed of by a method not described above, including sewage sludge sent to a municipal solid
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	used or disposed of by a method not described above, including sewage sludge sent to a municipal solid

4. Sludge Quality Data. Attach sewage sludge data for the parameters listed in Section 117.2 of the Department's Guidance and Regulations Governing the Land Treatment of Wastes, pathogen reduction information in accordance with Sections 132-134, and vector attraction reduction information in accordance with Section 135.

	Yes No If no, please explain
· •	Indicate type of facility:
	Federally owned treatment works
	Privately owned treatment works
	Publicly owned treatment works (POTW)
	If a POTW, provide the following:
	Total population served:
	Design influent flow (MGD):
	Other
	Applicants NPDES Permit Number (if applicable)
•	Does this applicant perform any collection, treatment, storage, application to land, or disposal of sewage on Indian Lands? Yes No
	Indian Lands?
	Indian Lands? Yes No Provide a topographic map (or other appropriate map if a topographic map is unavailable) that shows the following three items of information. Include the area one mile beyond all property boundaries of the applicants facility (submit as many maps as necessary to show the entire area). a. Location of sewage sludge management facilities (including on-site disposal sites).
	Indian Lands?
•	Indian Lands? Yes No Provide a topographic map (or other appropriate map if a topographic map is unavailable) that shows the following three items of information. Include the area one mile beyond all property boundaries of the applicants facility (submit as many maps as necessary to show the entire area). a. Location of sewage sludge management facilities (including on-site disposal sites). b. Location of all water bodies. c. Location of wells used for drinking water listed in public records or otherwise known to the applicant

SECTION A. SEWAGE SLUDGE GENERATION OR PREPARATION

Complete Section A if the applicant generates sewage sludge or derives material from sewage sludge.

dry metric tons per year generated dry metric tons per year received from off site ge sludge is received from off-site, list the owner and NPDES permit number (if applicable) of the facility. Also list the quantity (total dry metric tons per year) of sewage sludge received from each (attach additional pages if necessary). Permit Number: Treatment or Distribution. To be completed if the applicant sends sewage sludge to another for treatment or distribution prior to application to the land. I dry metric tons per year sent to receiving facility by the applicant and address of facility to which sewage sludge is sent
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ch class of pathogen reduction (if any) is met by the sewage sludge before it leaves the applicant'
be the process(es) (if any) used to meet this class of pathogen reduction.
ich of the following vector attraction reduction requirements (if any) is met by the sewage sludge it leaves the applicants facility? Minimum 38 percent reduction in volatile solids Anaerobic process, with bench-scale demonstration Aerobic process, with bench-scale demonstration

	e. Check all activities performed by the receiving facility on the applicants sewage sludge (if applicable).	
	Dewatering	
	Composting	
	Stabilization	
	Pathogen reduction	
	Vector attraction reduction	
	Blending with sewage sludge from other treatment works	
	Addition of bulking materials (wood chips, sawdust, manure)	
	Placement in bag or other container	
	Sale or give-away to public	
	Other	
	Describe the activities identified above. Attach a copy of all labels or notices that accompany the product.	
	To be completed if the applicant processes or packages sewage sludge for sale or give-away in a bag or other container for application to land (Distribution and Marketing permits)	
	a. Provide the total dry metric tons per year processed or packaged for sale or give-away in a bag or other container for application to land.	
1	b. Indicate which class of pathogen reduction is met by the sewage sludge processed or packaged for sale o give away in a bag or other container for application to land.	
Describe the process(es) used to meet this class of pathogen reduction.		
	Are all processes used to meet this class of pathogen reduction provided by the applicant? Yes No	
	If no, explain	
	c. Which of the following vector attraction reduction requirements is met by the sewage sludge processed of	
	packaged for sale or give away in a bag or other container for application to land?	
	Minimum 38 percent reduction in volatile solids	
	Anaerobic process, with bench-scale demonstration	
	Aerobic process, with bench-scale demonstration	
	Aerobic process, with bench-scale demonstration	
	Aerobic process, with bench-scale demonstration Specific oxygen uptake rate (SOUR) for aerobically digested sludge	
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Are all processes used for vector attraction reduction provided by the applicant?

Yes Yes		
d. Briefly descri	ibe any blending or manufacturing processes employed prior to sale or give away in a bag or er.	
e. Attach a copy	of all labels or notices that accompany the product being sold or given away.	
4. To be completed	d if sewage sludge from this facility is applied to land (Agricultural Utilization permits).	
	a. Provide the total dry metric tons per year from this facility applied or proposed to be applied and list each land application site	
Amount	Land Application Site	
b. Have all land	application sites been identified at the time of permit application? No	
	copy of the land application plan with this application information. Complete Section B only displication sites identified at the time of permit application.	

SECTION B. LAND APPLICATION (Agricultural Utilization Permits for Class B Sludge)

Complete Section B if the applicant seeks a permit to apply sewage sludge to land.

B.1.	Amount of Sewage Sludge Applied to Land Application Site. Provide the total dry metric tons per hectare per year applied to this site.
B.2.	Site Information.
	a. Provide the name (if any) and street address of this land application site.
	Name Address
	b. Provide the size of the land application site in hectares.
	c. Federal, State, and local permit number(s) applicable to this land application site (attach additional pages necessary).
	Permit Number Type of Permit
	 d. Is this site owned/operated by the applicant? Yes No e. What is the concentration of total nitrogen (as N on dry weight basis) in the bulk sewage sludge applied to this land application site?
В.3.	Person that Land Applies the Sewage Sludge. Sewage sludge is applied to the site by: Facility generating the sewage sludge Site owner/operator Other
	Provide the name and address of the person that applies sewage sludge to this site.
	Name
	Address
B.4.	Type of Land Application Site
	AgriculturalForestPublic contactReclamation siteLawn or home gardenOther

В.5.	Vegetation Grown on Site.
	a. What type of vegetation is grown on this site?
	b. What is the nitrogen requirement for this vegetation?
B.6.	Other facilities. Is sewage sludge sent to this land application site by any facilities other than the applicant's facility? Yes No
	If yes, provide the names and addresses of other persons that send sewage sludge to the site.
	Name Address
В.7.	Sewage Sludge Applied to Land in a Different State. Is this land application site located in a State other than the State where the sewage sludge is generated or the material is derived from sewage sludge? Yes No
	If yes, describe how the applicant plans to notify the permitting authority for the State where the land application site is located.
B.8.	Land Application Cumulative Pollutant Loading Rates. Is this sewage sludge applied to land subject to cumulative pollutant loading rates? Yes No
	If yes, have the cumulative pollutant loading rates of each applicable pollutant in the sludge been determined? Yes No
	If yes, provide the allotment remaining for the following pollutants (in kilograms per hectare).
	Arsenic Lead Nickel Cadmium Mercury Selenium Chromium Molybdenum Zinc Copper
B.9.	Pathogen Reduction.
	a. Which class of pathogen reduction is met by the sewage sludge applied to this site?
	b. Describe the process(es) used to meet this class of pathogen reduction.
	c. Are all processes used to meet this class of pathogen reduction provided by the applicant? Yes No
	If no, explain.

a.	which of the following vector attraction reduction requirements is met by the sewage studge applied to the site?
	Minimum 38 percent reduction in volatile solids
	Anaerobic process, with further bench-scale demonstration
	Aerobic process, with further bench-scale demonstration
	Specific oxygen uptake rate (SOUR) for aerobically digested sludge
	Aerobic processes plus raised temperature
	Raise pH to 12 and retain at 11.5
	75 percent solids with no unstabilized solids
	90 percent solids with unstabilized solids
	Injection below land surface
	Incorporation into soil within 6 hours
	Covering active sewage sludge unit daily
	Other, explain.
b. D	escribe the process(es) used to meet this vector attraction reduction requirement.
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c. A	re all processes used for vector attraction reduction provided by the applicant?
	Yes No
If n	o, explain.
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SECTION C. SLUDGE STORAGE

Complete Section C if the applicant proposes to store sludge in Delaware.
C.1. Is the application requesting a temporary or permeant sludge storage permit.
Temporary Permanent
C.2. The applicant shall submit all applicable information required in 7 Del. Admin. C. §7103-150 of Delaware's
"Guidance and Regulations Governing the Land Treatment of Waste", Part III, B., "Land Treatment of Sludges and
Sludge Products" http://regulations.delaware.gov/AdminCode/title7/7000/7103.pdf with the submittal of this
permit application in their project development report.

SECTION D. CERTIFICATION

Signature of Officer:	
Name of Officer:	
Official Title of Officer:	
Telephone Number:	
Date Signed:	